



I hereby certify that this correspondence is being deposited
with the United States Postal Service as first class mail
Addressed to:
Assistant Commissioner for Patents
Washington, D.C. 20231

August 28, 2002

By Michelle Chan
Michelle Chan

PATENT
100/12710

SEP 4 - 2002

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of:

GARY L. SHUCK

Application No.: 10/092,011

Filed: March 5, 2002

For: PROCESS FOR FILLING
MICROFLUIDIC CHANNELS

Examiner: Unknown

Art Unit: 1743

INFORMATION DISCLOSURE
STATEMENT UNDER 37 CFR § 1.97
AND 1.98

Assistant Commissioner for Patents
Washington, D.C. 20231

Sir:

The references cited on the attached form PTO-1449 are being called to the attention of the Examiner. A copy of each reference is enclosed.

It is respectfully requested that the cited information be expressly considered during the prosecution of this application, and the references be made of record therein and appear among the "references cited" on any patent to issue therefrom.

As provided for by 37 CFR §1.97(g) and (h), no inference should be made that the information and references cited are prior art merely because they are in this statement and no representation is made that a search has been conducted or that this statement encompasses all possible relevant information.

GARY L. SHUCK
Serial No. 10/092,011
Page 2

Applicants believe that no fee is required for submission of this statement, since it is being submitted within three months of the filing date or prior to the first Office Action. However, if a fee is required, the Commissioner is authorized to charge such fee to Deposit Account No. 03-0177. Please charge any additional fees or credit any overpayment to the above-noted deposit account.

Respectfully submitted,



Andrew L. Filler
Reg. No. 44,107

CALIPER TECHNOLOGIES CORP.
605 Fairchild Drive
Mountain View, CA 94043
Ph: (650) 623-0700
Fax: (650) 623-0500

ALF:mc



Substitute for form 1449A-B/PTO INFORMATION DISCLOSURE STATEMENT BY APPLICANT (use as many sheets as necessary)		Complete if Known		
		Application Number	10/092,011	SEP 4 - 2002
		Filing Date	March 5, 2002	
		First Named Inventor	Shuck	
		Group Art Unit		
		Examiner Name		
		Attorney Docket Number	100/12710	

U.S. PATENT DOCUMENTS				
Examiner Initials	Cite No.	U.S. Patent Document Number	Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY
	AA	4,390,403	Batchelder	06-28-1983
	AB	4,908,112	Pace	03-13-1990
	AC	5,126,022	Soane et al.	06-30-1992
	AD	5,498,392	Wilding et al.	03-12-1996
	AE	5,571,410	Swedberg et al.	11-05-1996
	AF	5,585,069	Zanzucchi et al.	12-17-1996
	AG	5,593,838	Zanzucchi et al.	01-14-1997
	AH	5,603,351	Cherukuri et al.	02-18-1997
	AI	5,635,358	Wilding et al.	06-03-1997
	AJ	5,637,469	Wilding et al.	06-10-1997
	AK	5,699,157	Parce	12-16-1997
	AL	5,716,852	Yager et al.	02-10-1998
	AM	5,750,015	Soane et al.	05-12-1998
	AN	5,779,868	Parce et al.	07-14-1998
	AO	5,800,690	Chow et al.	09-01-1998
	AP	5,858,187	Ramsey et al.	01-12-1999
	AQ	5,858,195	Ramsey	01-12-1999
	AR	5,869,004	Parce et al.	02-09-1999
	AS	5,876,675	Kennedy	03-02-1999
	AT	5,880,071	Parce et al.	03-09-1999
	AU	5,882,465	McReynolds	03-16-1999
	AV	5,885,470	Parce et al.	03-23-1999
	AW	5,932,100	Yager et al.	08-03-1999
	AX	5,942,443	Parce et al.	08-24-1999
	AY	5,948,227	Dubrow	09-07-1999
	AZ	5,955,028	Chow	09-21-1999
	BA	5,958,694	Nikiforov	09-28-1999
Examiner Signature			Date Considered	

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

SEP 03 2002

Substitute for form 1449A-B/PTO

**INFORMATION DISCLOSURE
STATEMENT BY APPLICANT**

(use as many sheets as necessary)

Complete if Known

Application Number	10/092,011
Filing Date	March 5, 2002
First Named Inventor	Shuck
Group Art Unit	5EP 4 2002
Examiner Name	
Attorney Docket Number	100/12710

	BB	5,959,291		Jensen	09-28-1999	
	BC	5,965,410		Chow et al.	10-12-1999	
	BD	5,976,336		Dubrow et al.	11-02-1999	
	BE	5,989,402		Chow et al.	11-23-1999	
	BF	6,001,229		Ramsey	12-14-1999	
	BG	6,001,231		Kopf-Sill	12-14-1999	
	BH	6,012,902		Parce	01-11-2000	
	BI	6,042,709		Parce et al.	03-28-2000	
	BJ	6,062,261		Jacobson et al.	05-16-2000	
	BK	6,074,725		Kennedy	06-13-2000	
	BL	6,100,541		Nagle et al.	08-08-2000	
	BM	6,120,666		Jacobson et al.	09-19-2000	
	BN	6,149,787		Chow et al.	11-21-2000	
	BO	6,221,226		Kopf-Sill	04-24-2001	
	BP	6,235,471		Knapp et al.	05-22-2001	
	BQ	6,280,589		Manz et al.	08-28-2001	

FOREIGN PATENT DOCUMENTS

Examiner Initials	Cite No.	Foreign Patent Document			Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T
		Office	Number	Kind Code (if known)				
	BR	WO	9604547		Lockheed Martin	02-15-1996		
	BS	WO	9702357		Affymetrix, Inc.	01-23-1997		
	BT	WO	9845481		Caliper	10-15-1998		

OTHER PRIOR ART - NON PATENT LITERATURE DOCUMENTS

Examiner Initials	Cite No.	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T
	BU	DASGUPTA, P.K. et al., "Electroosmosis: A Reliable Fluid Propulsion System for Flow Injection Analysis," <i>Anal. Chem.</i> (1994) 66:1792-1798	
	BV	EFFENHAUSER, C.S. et al., "Glass Chips for High-Speed Capillary Electrophoresis Separations with Submicrometer Plate Heights," <i>Anal. Chem.</i> (1993) 65: 2637-2642	

Examiner Signature	Date Considered
--------------------	-----------------

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.



Substitute for form 1449A-B/PTO INFORMATION DISCLOSURE STATEMENT BY APPLICANT (use as many sheets as necessary)		Complete if Known	
	Application Number	10/092,011	
	Filing Date	March 5, 2002	
	First Named Inventor	Shuck <i>SEP 4 2002</i>	
	Group Art Unit		
	Examiner Name		
	Attorney Docket Number	100/12710	

BW	EFFENHAUSER, C.S. et al., "High Speed Separation of Anitsense Oligonucleotides on a Micromachined Capillary Electrophoresis Device," <u>Anal. Chem.</u> (1994) 66: 2949-2953	
BX	EFFENHAUSER, C.S. et al., "Integrated Capillary Electrophoresis on Flexible Silicone Microdevices: Analysis of DNA Restriction Fragments and Detection of Single DNA Molecules on Microchips," <u>Anal. Chem.</u> (1997) 69: 3451-3457	
BY	FAN, Z.H. et al., "Micromachining of Capillary Electrophoresis Injectors and Separators on Glass Chips and Evaluation of Flow at Capillary Intersections," <u>Anal. Chem.</u> (1994) 66: 177-184	
BZ	FISTER, J.C. III et al., "Counting Single Chromophore Molecules for Ultrasensitive Analysis and Separations on Microchip Devices," <u>Anal. Chem.</u> (1998) 70: 431-437	
CA	HADD, A.G. et al., "Microfluidic Assays of Acetylcholinesterase," <u>Anal. Chem.</u> (1999) 71: 5206-5212	
CB	HARRISON, J. et al., "Capillary Electrophoresis and Sample Injection Systems Integrated on a Planar Glass Chip," <u>Anal. Chem.</u> (1992) 64: 1926-1932	
CC	HARRISON, J. et al., "Towards Miniaturized Electrophoresis and Chemical Analysis Systems on Silicon: An Alternative to Chemical Sensors*," <u>Sensors and Actuators B</u> (1993) 10: 107-116	
CD	HARRISON, J. et al., "Micromachining a Miniaturized Capillary Electrophoresis-Based Chemical Analysis System on a Chip," <u>Science</u> (1993) 261: 895-897	
CE	HARRISON, D.J. et al., "Integrated Electrophoresis Systems for Biochemical Analyses," <u>Solid-State Sensor and Actuator Workshop</u> (1994) 21-24	
CF	JACOBSON, S.C. et al., "Effects of Injection Schemes and Column Geometry on the Performance of Microchip Electrophoresis Devices," <u>Anal. Chem.</u> (1994) 66:1107-1113	
CG	JACOBSON, S.C. et al., "High-Speed Separations on a Microchip," <u>Anal. Chem.</u> (1994) 66: 1114-1118	
CH	JACOBSON, S.C. et al., "Open Channel Electrochromatography on a Microchip," <u>Anal. Chem.</u> (1994) 66: 2369-2373	
CI	JACOBSON, S.C. et al., "Precolumn Reactions with Electrophoretic Analysis Integrated on a Microchip," <u>Anal. Chem.</u> (1994) 66: 4127-4132	
CJ	JACOBSON, S.C. et al., "Microchip Electrophoresis with Sample Stacking," <u>Electrophoresis</u> (1995) 16: 481-486	
CK	JACOBSON, S.C. et al., "Fused Quartz Substrates for Microchip Electrophoresis," <u>Anal. Chem.</u> (1995) 67: 2059-2063	
CL	JACOBSON, S.C. et al., "Integrated Microdevice for DNA Restriction Fragment Analysis," <u>Anal. Chem.</u> (1996) 68: 720-723	

Examiner Signature	Date Considered

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

Substitute for form 1449A-B/PTO

Complete if Known

Application Number	10/092,011
Filing Date	March 5, 2002
First Named Inventor	Shuck
Group Art Unit	SEP 4 2002
Examiner Name	
Attorney Docket Number	100/12710

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

Use as many sheets as necessary

SEP 03 2002
PATENT & TRADEMARK OFFICE
100-12710

CM	JACOBSON, S.C. et al., "Electrokinetic Focusing in Microfabricated Channel Structures," <u>Anal. Chem.</u> (1997) 69: 3212-3217
CN	JACOBSON, S.C. et al., "Microfluidic Devices for Electrokinetically Driven Parallel and Serial Mixing," <u>Anal. Chem.</u> (1999) 71: 4455-4459
CO	MANZ, A. et al., "Miniaturized Total Chemical Analysis Systems: a Novel Concept for Chemical Sensing," <u>Sensors and Actuators</u> (1990) B1: 244-248
CP	MANZ, A. et al., "Micromachining of Monocrystalline Silicon and Glass for Chemical Analysis Systems," <u>Trends in Analytical Chemistry</u> (1991) 10:144-149
CQ	MANZ, A. et al., "Planar Chips Technology for Miniaturization and Integration of Separation Techniques into Monitoring Systems," <u>Journal of Chromatography</u> (1992) 593:253-258
CR	MANZ, A. et al., "Planar Chips Technology for Miniaturization of Separation Systems: A Developing Perspective in Chemical Monitoring,"
CS	MANZ, A. et al., "Electroosmotic Pumping and Electrophoretic Separations for Miniaturized Chemical Analysis Systems," <u>J. Micromach. Microeng.</u> (1994) 4: 257-265
CT	MANZ, A. et al., "Parallel Capillaries for High Throughput in Electrophoretic Separations and Electroosmotic Drug Discovery Systems," <u>International Conference on Solid-State Sensors and Actuators</u> (1997) 915-918
CU	McCORMICK, R.M. et al., "Microchannel Electrophoretic Separations of DNA in Injection-Molded Plastic Substrates," <u>Anal. Chem.</u> (1997) 69: 2626-2630
CV	MOORE, A.W. et al., "Microchip Separations of Neutral Species via Micellar Electrokinetic Capillary Chromatography," <u>Anal. Chem.</u> (1995) 67: 4184-4189
CW	RAMSEY, J.M. et al., "Microfabricated Chemical Measurement Systems," <u>Nature Medicine</u> (1995) 1:1093-1096
CX	SALIMI-MOOSAVI, H. et al., "Biology Lab-on-a-Chip for Drug Screening," <u>Solid-State Sensor and Actuator Workshop</u> (1998) 350-353
CY	SEILER, K. et al., "Planar Glass Chips for Capillary Electrophoresis: Repetitive Sample Injection, Quantitation, and Separation Efficiency," <u>Anal. Chem.</u> (1993) 65:1481-1488
CZ	SEILER, K. et al., "Electroosmotic Pumping and Valveless Control of Fluid Flow within a Manifold of Capillaries on a Glass Chip," <u>Anal. Chem.</u> (1994) 66:3485-3491
DA	UEDA, M. et al., "Imaging of a Band for DNA Fragment Migrating in Microchannel on Integrated Microchip," <u>Materials Science and Engineering C</u> (2000) 12:33-36
DB	WANG, C. et al., "Integration of Immobilized Trypsin Bead Beds for Protein Degestions within a Microfluidic Chip Incorporating Capillary Electrophoresis Separations and an Electrospray Mass Spectrometry Interface," <u>Rapid Commun. Mass Spectrom.</u> (2000) 14:1377-1383

Examiner Signature		Date Considered	
--------------------	--	-----------------	--

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

Substitute for form 1449A-B/PTO INFORMATION DISCLOSURE STATEMENT BY APPLICANT SEP 03 2002 (use as many sheets as necessary)		Complete if Known	
		Application Number	10/092,011
		Filing Date	March 5, 2002
		First Named Inventor	Shuck
		Group Art Unit	SEP 4 2002
		Examiner Name	
		Attorney Docket Number	100/12710

DC	WOOLLEY, A.T. et al., "Ultra-High-Speed DNA Fragment Separations Using Microfabricated Capillary Array Electrophoresis Chips," <u>Proc. Natl. Acad. Sci. USA</u> (1994) 91:11348-11352
DD	WOOLLEY, A.T. et al., "Functional Integration of PCR Amplification and Capillary Electrophoresis in a Microfabricated DNA Analysis Device," <u>Anal. Chem.</u> (1996) 68: 4081-4086
DE	WOOLLEY, A.T. et al., "High-Speed DNA Genotyping Using Microfabricated Capillary Array Electrophoresis Chips," <u>Anal. Chem.</u> (1997) 69:2181-2186
DF	WOOLLEY, A.T. et al., "Capillary Electrophoresis Chips with Integrated Electrochemical Detection," <u>Anal. Chem.</u> (1998) 70: 684-688
DG	ZHANG, B. et al., "Microfabricated Devices for Capillary Electrophoresis-Electrospray Mass Spectrometry," <u>Anal. Chem.</u> (1999) 71:3258-3264

Examiner Signature		Date Considered	
--------------------	--	-----------------	--

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.